

*B1  
cont.*

transition metal complex of a polycarboxylic acid; transition metal complex of polyamine; transition metal complex of salicylic acid; a reduced form of a photoreducible dye compound; carbonyl compound with an absorbance in the ultraviolet spectrum; tannin; polyethers with transition metal catalysts; polyamides with transition metal catalysts; organic compounds having a tertiary hydrogen, benzylic hydrogen, allylic hydrogen in combination with a transition metal catalyst; and an oxidizable metal olefin combination with a salt.

*B2*

16. (Once amended) The composition of claim 1 wherein said layered silicate material is a Wyoming sodium montmorillonite, Wyoming sodium bentonite which has been treated with one or more alkoxylated ammonium cations.

Please cancel claim 14.

Please add the following new claims:

30. A polymer-platelet particle composite comprised of at least one polyamide, at least one oxygen scavenging system, and platelet particles from at least one layered silicate material wherein the platelet particles are present in the amount of up to 30 weight percent.
31. The composite of claim 30, wherein said polyamide resin comprises a partially aromatic polyamide.
32. The composite of claim 31, wherein said polyamide resin is selected from the group consisting of poly(m-xylylene adipamide), poly(hexamethylene isophthalamide-co-terephthalamide), poly (m-sylylene adipamide-co-isophthalamide), and mixtures thereof.
33. The composite of claim 32 wherein said polyamide resin comprises poly(m-xylylene adipamide).
34. The composite of claim 30 wherein said platelet particles are present in an amount between about 0.01 weight percent and about 20 weight percent.
35. The composite of claim 30 wherein said platelet particles are present in an amount between about 0.5 weight percent and about 20 weight percent.
36. The composite of claim 30 wherein said layered silicate material comprises sodium bentonite, sodium montmorillonite or mixtures thereof.
37. The composite of claim 30 wherein said oxygen scavenging system comprises an oxygen scavenging catalyst which comprises at least one transition metal compound.
38. The composite of claim 37 wherein said oxygen scavenging catalyst is selected from the group consisting of the first, second, and third transition series.
39. The composite of claim 37 wherein said oxygen scavenging catalyst comprises at least one cobalt compound.
40. The composite of claim 39 wherein said cobalt compound is selected from the group consisting of organic acids, acetates, halides, and mixtures thereof.

B3  
cont.

41. The composite of claim 30 wherein said oxygen scavenging system is selected from the group consisting of ethylenically unsaturated hydrocarbons and a transition metal catalyst; ascorbate; isoascorbate; sulfite; ascorbate with an oxygen scavenging catalyst; transition metal complex or chelate of a polycarboxylic acid; transition metal complex or chelate of polyamine; transition metal complex or chelate of salicylic acid; a reduced form of a photoreducible dye compound; carbonyl compound with an absorbance in the ultraviolet spectrum; tannin; polyethers with a transition metal catalyst; polyamides with a transition metal catalyst; organic compounds having a tertiary hydrogen, benzylic hydrogen or allylic hydrogen in combination with a transition metal catalyst; an oxidizable metal in combination with a salt; or a metal in a low oxidation state that can be oxidized further to higher oxidation state, usually in combination with a salt.

42. The composite of claim 41 wherein said photoreducible dye is selected from the group consisting of quinines and anthraquinones.

43. The composite of claim 30 wherein said layered silicate material comprises a Wyoming sodium montmorillonite or Wyoming sodium bentonite which has been treated with one or more alkoxylated ammonium cations.

44. The composite of claim 30 further comprising at least one antioxidant.

45. The composite of claim 30 further comprising at least one photoinitiator.

46. A polymer-platelet particle composite comprising of at least one polyamide, at least one oxygen scavenging system, platelet particles from at least one layered silicate material, and at least one antioxidant.

47. The composite of claim 46 wherein said oxygen scavenging system comprises an oxygen scavenging catalyst which comprises at least one transition metal compound.

48. The composite of claim 47, wherein said oxygen scavenging catalyst comprises at least one cobalt compound.

49. The composite of claim 46 wherein said oxygen scavenging system is selected from the group consisting of ethylenically unsaturated hydrocarbons and a transition metal catalyst; ascorbate, isoascorbate; sulfite; ascorbate with an oxygen scavenging

b3  
cont.

catalyst; transition metal complex or chelate of a polycarboxylic acid; transition metal complex or chelate of polyamine; transition metal complex or chelate of salicylic acid; a reduced form of a photoreducible dye compound; carbonyl compound with an absorbance in the ultraviolet spectrum; tannin; polyethers with a transition metal catalyst; polyamides with a transition metal catalyst; organic compounds having a tertiary hydrogen, benzylic hydrogen or allylic hydrogen in combination with a transition metal catalyst; an oxidizable metal in combination with a salt; or a metal in a low oxidation state that can be oxidized further to higher oxidation state,usually in combination with a salt.

50. The composite of claim 46 wherein said polyamide resin is selected from the group consisting of poly(m-xylylene adipamide), poly(hexamethylene isophthalamide-co-terephthalamide), poly(m-xylylene adipamide-co-isophthalamide), and mixtures thereof.

51. A polymer platelet particle composite comprising of at least one polyamide, at least one oxygen scavenging system, platelet particles derived from at least one layered silicate material, and at least one photoinitiator.

52. The composite of claim 51 wherein said oxygen scavenging system comprises an oxygen scavenging catalyst which comprises at least one transition metal compound.

53. The composite of claim 52, wherein said oxygen scavenging catalyst comprises at least one cobalt compound.

54. The composite of claim 51 wherein said oxygen scavenging system is selected from the group consisting of ethylenically unsaturated hydrocarbons and a transition metal catalyst; ascorbate, isoascorbate; sulfite; ascorbate with an oxygen scavenging catalyst; transition metal complex or chelate of a polycarboxylic acid; transition metal complex or chelate of polyamine; transition metal complex or chelate of salicylic acid; a reduced form of a photoreducible dye compound; carbonyl compound with an absorbance in the ultraviolet spectrum; tannin; polyethers with a transition metal catalyst; polyamides with a transition metal catalyst; organic compounds having a tertiary hydrogen, benzylic hydrogen or allylic hydrogen in combination with a transition

metal catalyst; an oxidizable metal in combination with a salt; or a metal in a low oxidation state that can be oxidized further to higher oxidation state, usually in  
*optionally* combination with a salt.

*B3  
cont.*  
55. The composite of claim 51 wherein said polyamide resin is selected from the group consisting of poly(m-xylylene adipamide), poly(hexamethylene isophthalamide-co-terephthalamide), poly(m-xylylene adipamide-co-isophthalamide), and mixtures thereof.

56. A polymer-platelet particle composite comprising at least one polyamide, at least one oxygen scavenging system, and platelet particles from at least one layered silicate material.

57. The composite of claim 1 wherein said polyamide resin is selected from the group consisting of partially aromatic polyamides.

58. The composite of claim 1 wherein said polyamide resin is selected from the group consisting of poly(m-xylylene adipamide), poly(hexamethylene isophthalamide-co-terephthalamide), poly(m-xylylene adipamide-co-isophthalamide), and mixtures thereof.

59. The composite of claim 1 wherein said polyamide resin comprises poly(m-xylylene adipamide).

60. The composite of claim 1 wherein said platelet particles are present in an amount up to about 30 weight percent.

61. The composite of claim 1 wherein said platelet particles are present in an amount up to about 20 weight percent.

62. The composite of claim 1 wherein said platelet particles are present in an amount between about 0.01 weight percent and about 20 weight percent.

63. The composite of claim 1 wherein said platelet particles are present in an amount between about 0.5 weight percent and about 20 weight percent.

64. The composite of claim 1 wherein said layered silicate material comprises sodium bentonite, sodium montmorillonite or mixtures thereof.

65. The composite of claim 1 wherein said oxygen scavenging system comprises an oxygen scavenging catalyst which comprises at least one transition metal compound.

66. The composite of claim 65 wherein said oxygen scavenging catalyst is selected from the group consisting of the first, second, and third transition series of the Periodic Table of the Elements.

b3  
cont'd.  
67. The composite of claim 66 wherein said oxygen scavenging catalyst comprises at least one cobalt compound.

68. The composite of claim 67 wherein said cobalt compound is selected from the group consisting of cobalt salts of organic acids, cobalt acetates, cobalt halides, and mixtures thereof.

69. The composite of claim 1 wherein said oxygen scavenging system is selected from the group consisting of ethylenically unsaturated hydrocarbons and a transition metal catalyst; ascorbate; isoascorbate; sulfite; ascorbate with an oxygen scavenging catalyst; transition metal complex of a polycarboxylic acid; transition metal complex of polyamine; transition metal complex of salicylic acid; a reduced form of a photoreducible dye compound; carbonyl compound with an absorbance in the ultraviolet spectrum; tannin; polyethers with a transition metal catalyst; polyamides with a transition metal catalyst; organic compounds having a tertiary hydrogen, benzylic hydrogen or allylic hydrogen in combination with a transition metal catalyst; and an oxidizable metal in combination with a salt.

70. The composite of claim 1 wherein said layered silicate material is a Wyoming sodium montmorillonite or Wyoming sodium bentonite which has been treated with one or more alkoxylated ammonium cations.